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Approved For Release 2004/05/05 : CIA-RDP78B05171A000600010003-0

NPIC/TSG-129-70

MEMORANDUM FOR: Director, National Photographic Interpretation Center

SUBJECT: Request for Approval of a Contract with [REDACTED] to Develop a PI Print-out Station for [REDACTED] from FY 1971 R&D Funds

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1. This memorandum requests approval for the commitment of R&D funds for an NPIC contract. The specific request is stated in paragraph 2.

2. There is a current photo interpretation requirement for equipment to produce quality photo reproductions right at the PI's work station using available "work copy" in film positive form. This capability will enable the interpreter to make varying "density cuts" of imagery to enhance the interpretability of certain features and to produce individual stereo pairs for his historical reference file without cutting sections of the film from which he is working. In the past, this requirement has been partially filled by a Diazo (ammonia processed) system, which was developed about five years ago. Wear and aging of the previously developed equipment, combined with the inherent problems created by ammonia leakage--with resulting toxicity and corrosion problems, have resulted in the gradual retirement of these printer/processor stations although the user requirement still exists. This requirement will be accentuated by newer acquisition systems which produce greater volumes of film while at the same time providing fewer copies of the materials for exploitation.

3. The experimental materials and printing and processing techniques developed by the [REDACTED] under NPIC funding have recently undergone experimental evaluation by operational personnel in the Center. The results from that evaluation have provided significant inputs for the configuration of the proposed PI Print-out Station. This development is designed to optimize the exposure light source as well as printing and processing techniques for the heat processed films.

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Declass Review by
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25X1 4. Under the proposed contract, [redacted] will
modify a government furnished CGS-PIPP Table for use with
Therma-Tone Diazo film. This includes stripping
the table of its present ammonia developer system, exposure
light source, exposure platen pressure system, and control
panel. These items will be replaced with a compact heat
developer, a collimated light source, an inflated air bag
pressure system, and a new control panel. This combination
will provide a capability to produce uniform reproduction
prints at an average resolution of 200 line pairs per milli-
meter, or greater, from USAF 1951 High Contrast negative
targets.

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25X1 5. [redacted] has proposed a seven-month schedule
for delivery of the finished equipment which will use the
new heat processed photo reproduction films developed under
our research contract. The risks here are not concerned
with technical feasibility but with how well the system can
be optimized to provide the photo interpreter with the high-
est quality reproduction with the greatest ease of operation
at his work station. Hence, the technical risks are consid-
ered to be low.

25X1 6. MPIC will furnish a [redacted] ammonia Rapid Interpretation
Printer Processor (RIPPS) as GPF for the basis of this
development. At the present stage of development, the heat
processed materials and processing equipment are still
unique [redacted]. Therefore, sole source procure-
ment is essential.

25X1 7. No immediate follow-on effort is presently plan-
ned for the PI Print-out Station (PIPS). However, it is
expected that after successful operational testing PI
print-out Stations will be placed throughout the Center to
help in relieving film copy shortage problems.

8. The overall security classification of this con-
tract will be CONFIDENTIAL. The association is CONFIDE-
NTIAL, and the title and work are UNCLASSIFIED.

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9. It is requested that approval be granted to negotiate a contract with the [redacted] at a cost not to exceed [redacted] from Category V FY 1971 R&D funds.

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[redacted]
Chief, Technical Services Group
NPIC

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Attachments:

1. Proposal
2. Form 2420

APPROVED:

ARTHUR C. LUNDARE [redacted] Date
Director,
National Photographic Interpretation Center

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